FIG.1

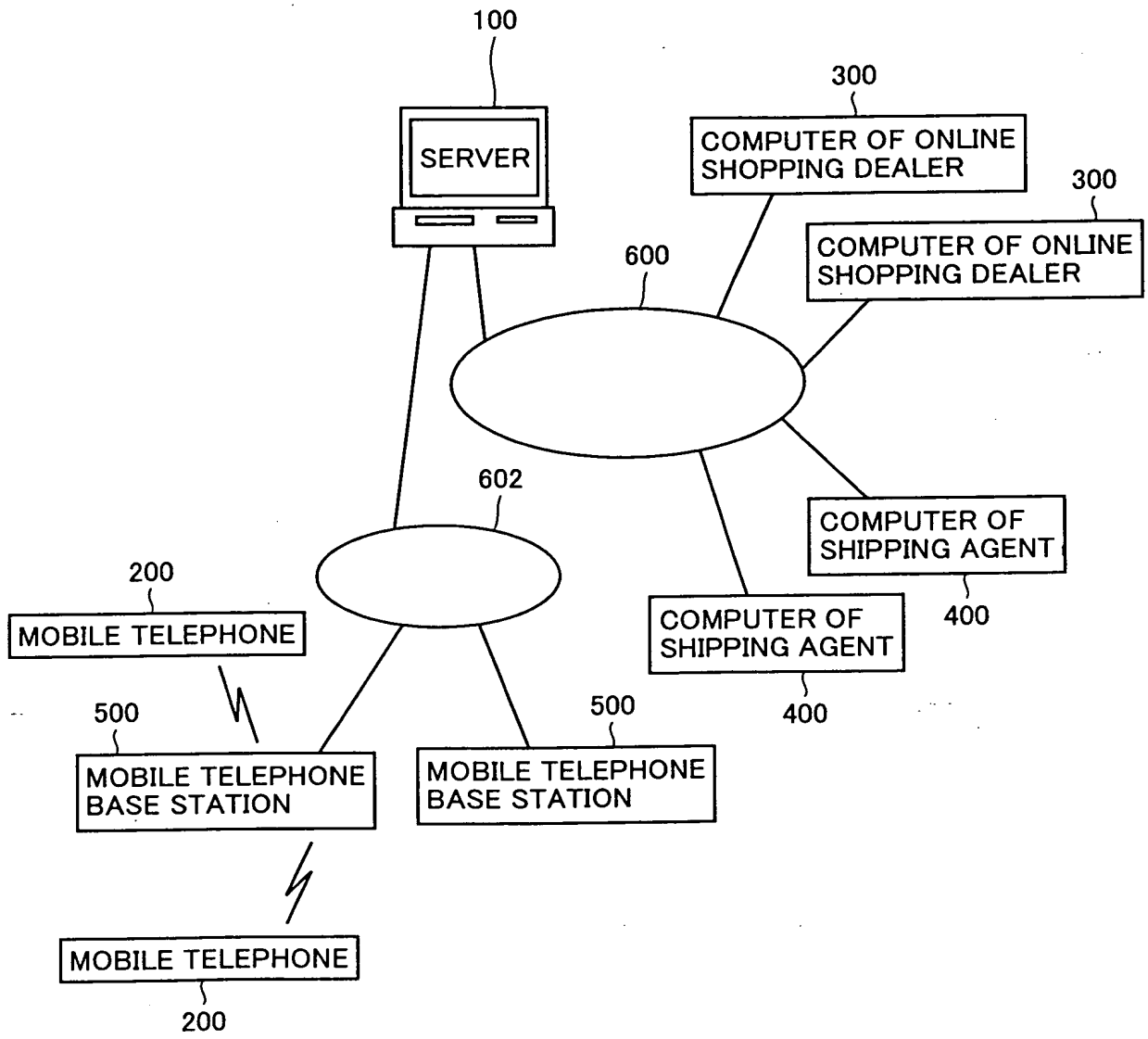

100
SERVER
300
COMPUTER OF ONLINE SHOPPING DEALER
300
COMPUTER OF ONLINE SHOPPING DEALER
600
602
COMPUTER OF SHIPPING AGENT
400
COMPUTER OF SHIPPING AGENT
400
200
MOBILE TELEPHONE
500
MOBILE TELEPHONE BASE STATION
500
MOBILE TELEPHONE BASE STATION
MOBILE TELEPHONE
200

FIG.2

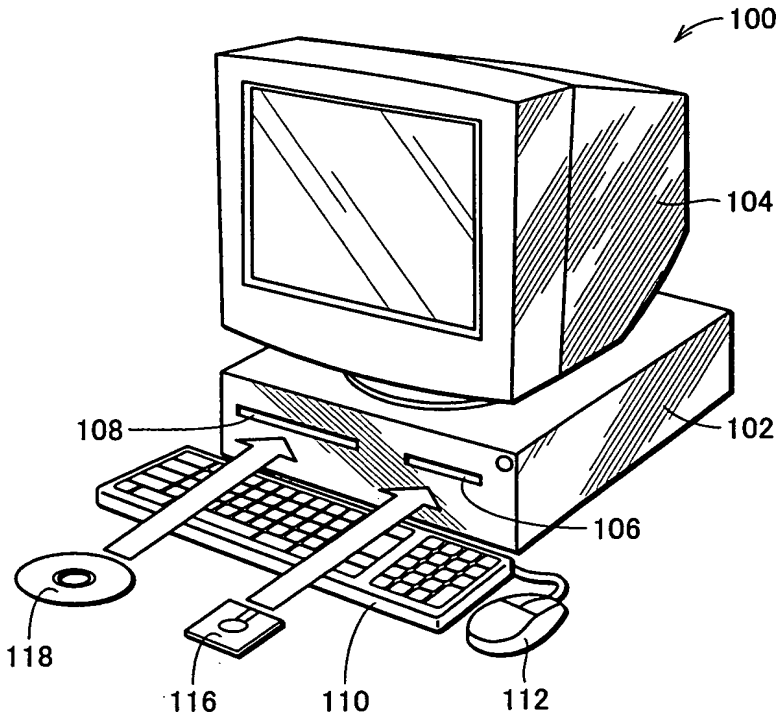


FIG.3

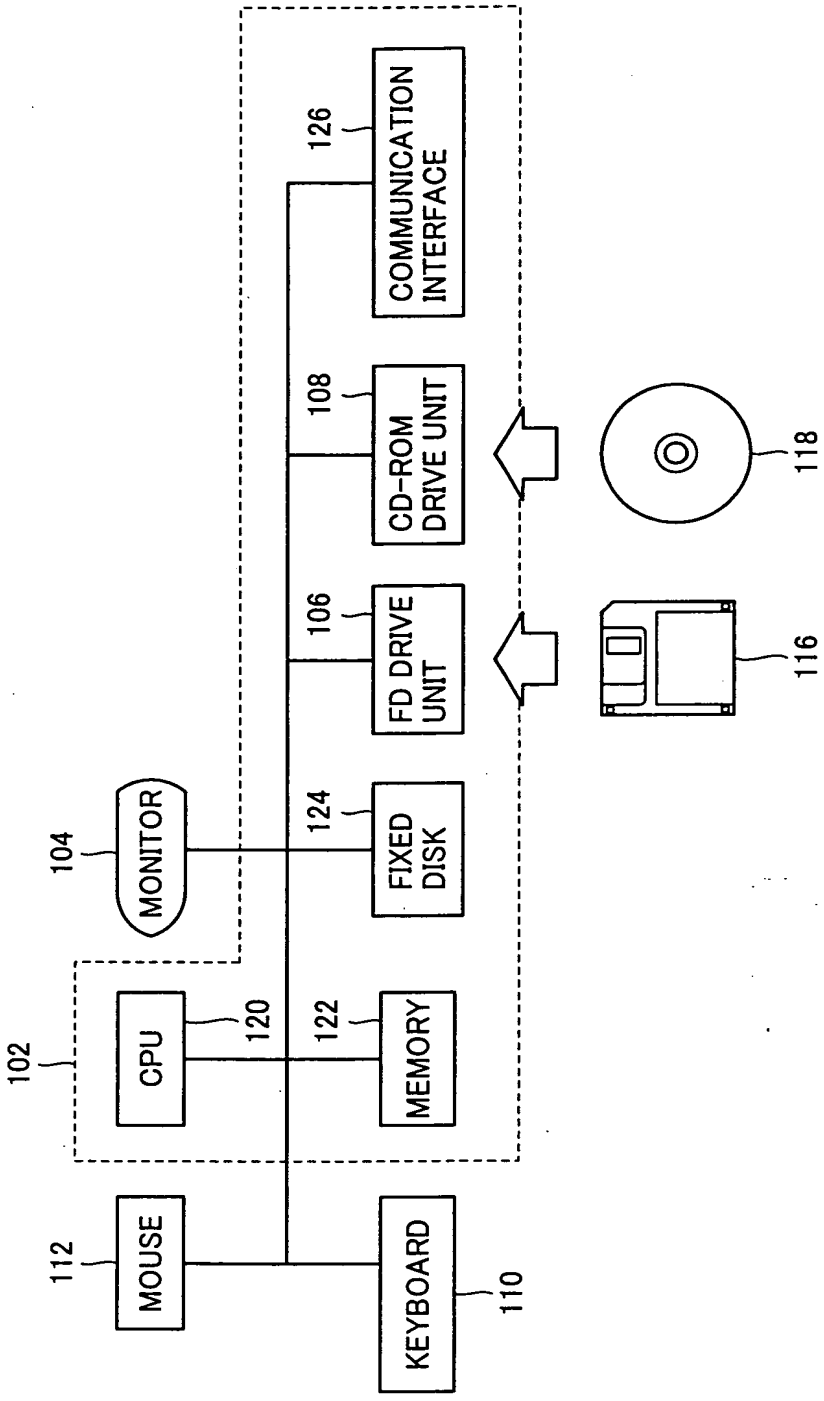

102
104
MONITOR
CPU
120
122
MEMORY
124
FIXED DISK
106
FD DRIVE UNIT
108
CD-ROM DRIVE UNIT
126
COMMUNICATION INTERFACE
112
MOUSE
KEYBOARD
110
116
118

FIG.4

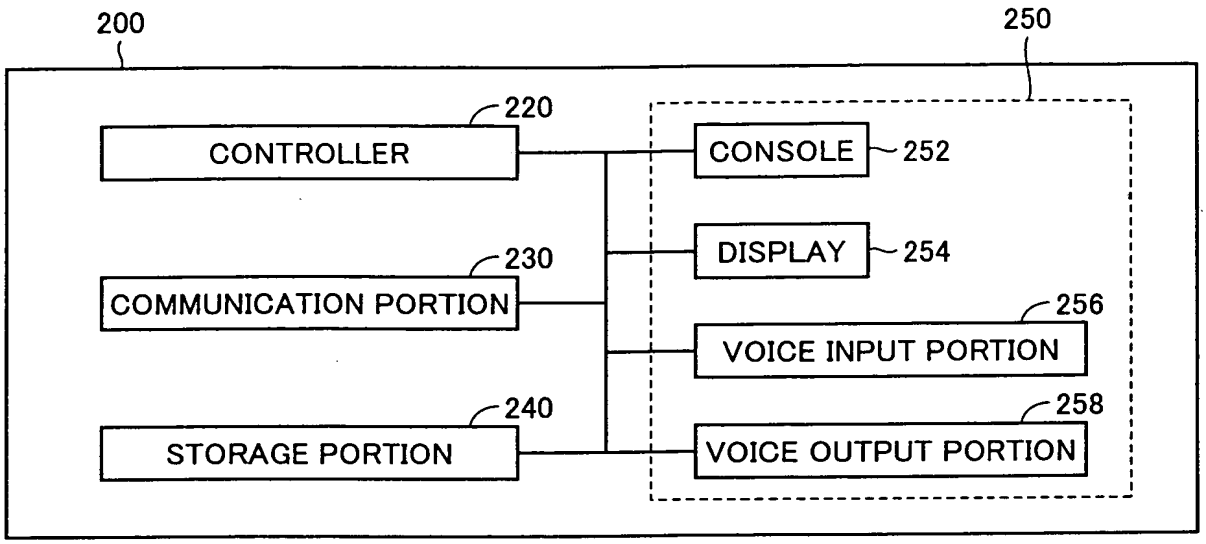


FIG.5

IDENTIFICATION No.	USER ID	TELEPHONE No.	NAME	ADDRESS	MAIL ADDRESS
abc01943832	user1001	090-1234-5678	...	...	...

FIG.6

USER ID	COMMUNICATION CHARGE			ONLINE SHOPPING CHARGE			
	BASIC CHARGE	FEE FOR CALL	MONTHLY TOTAL	PURCHASE ID	ARTICLE PRICE	SHIPPING FEE	MONTHLY TOTAL
user1001	¥2000	—	¥2000	2001	¥3000	¥500	¥3500
	—	¥20	¥2020	2002	¥2400	¥500	¥6400
	—	¥100	¥2120	2004	¥3300	¥500	¥10200
	—	...	...	...	...	...	...
	—	...	¥4500	...	...	...	¥23000
user1002	...	...	...	...	...	...	...
user1003	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...

FIG.7

ORDER DATA MOBILE TELEPHONE → SERVER

HEADER	ORDER FLAG	ID No.	PHONE No.	ORDER No.	QTY.

FIG.8

TRANSFER DATA SERVER → DEALER'S COMPUTER

HEADER	TRANSFER FLAG	USER ID	ORDER No.	QTY.	ADDRESS	NAME

FIG.9

ORDER CONFIRMATION DATA DEALER'S COMPUTER → SERVER → TELEPHONE

HEADER	ORDER CONFIRMATION FLAG	USER ID	ORDER No.	QTY.

FIG.10

ORDER CONFIRMATION RESPONSE DATA PHONE → SERVER → DEALER'S COMPUTER

HEADER	ORDER CONFIRMATION RESPONSE FLAG	USER ID	ORDER CONFIRMATION RESPONSE INFORMATION

FIG.11

DELIVERY REQUEST DATA DEALER'S COMPUTER → AGENT'S COMPUTER

HEADER	DELIVERY REQUEST FLAG	USER ID	PURCHASE ID	ARTICLE No.	QTY.	ADDRESS	NAME

FIG.12

DELIVERY CONFIRMATION DATA AGENT'S COMPUTER → SERVER → PHONE

HEADER	DELIVERY CONFIRMATION FLAG	USER ID	ARTICLE No.	QTY.	DATA & TIME

FIG.13

DELIVERY CONFIRMATION RESPONSE DATA PHONE → SERVER → AGENT'S COMPUTER

HEADER	DELIVERY CONFIRMATION RESPONSE FLAG	USER ID	DELIVERY CONFIRMATION RESPONSE INFORMATION

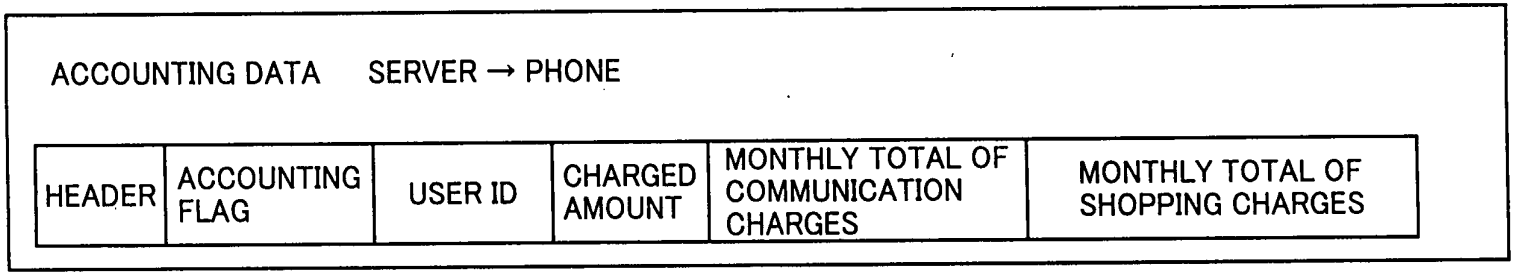
FIG.14

ACCOUNTING REQUEST DATA DEALER'S COMPUTER → SERVER

HEADER	ACCOUNTING REQUEST FLAG	USER ID	PURCHASE ID	PRICE	SHIPPING FEE

EP 0 999 680 A2

FIG.15



OBLON, SPIVAK, ET AL
DOCKET #: 212184US2
INV: Hajime NISHIMOTO
SHEET 7 OF 14

FIG.16

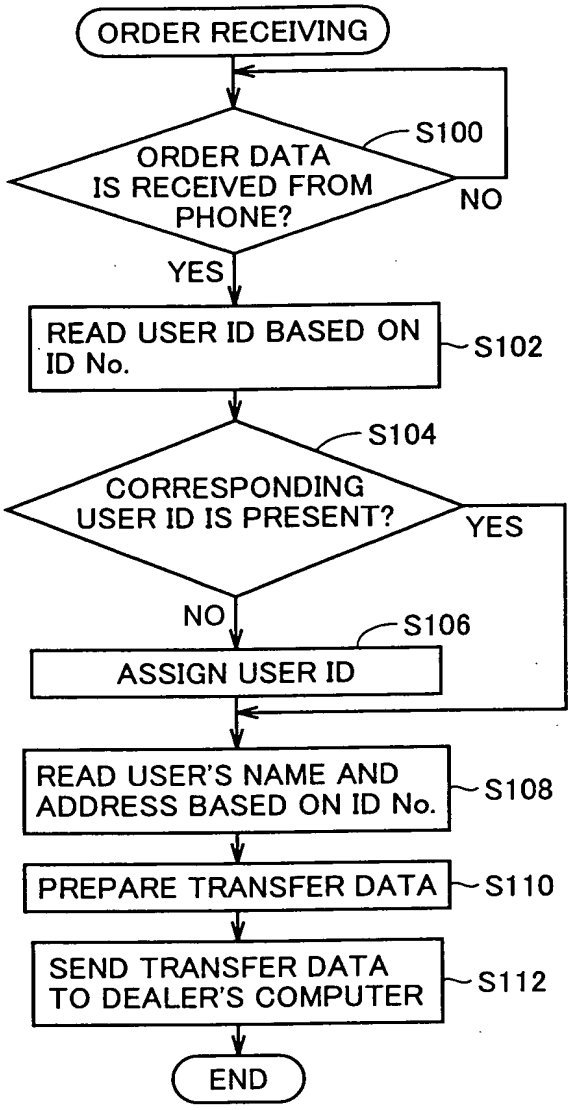

ORDER RECEIVING
S100
ORDER DATA IS RECEIVED FROM PHONE?
NO
YES
READ USER ID BASED ON ID No.
S102
S104
CORRESPONDING USER ID IS PRESENT?
YES
NO
S106
ASSIGN USER ID
READ USER'S NAME AND ADDRESS BASED ON ID No.
S108
PREPARE TRANSFER DATA
S110
SEND TRANSFER DATA TO DEALER'S COMPUTER
S112
END

FIG.17

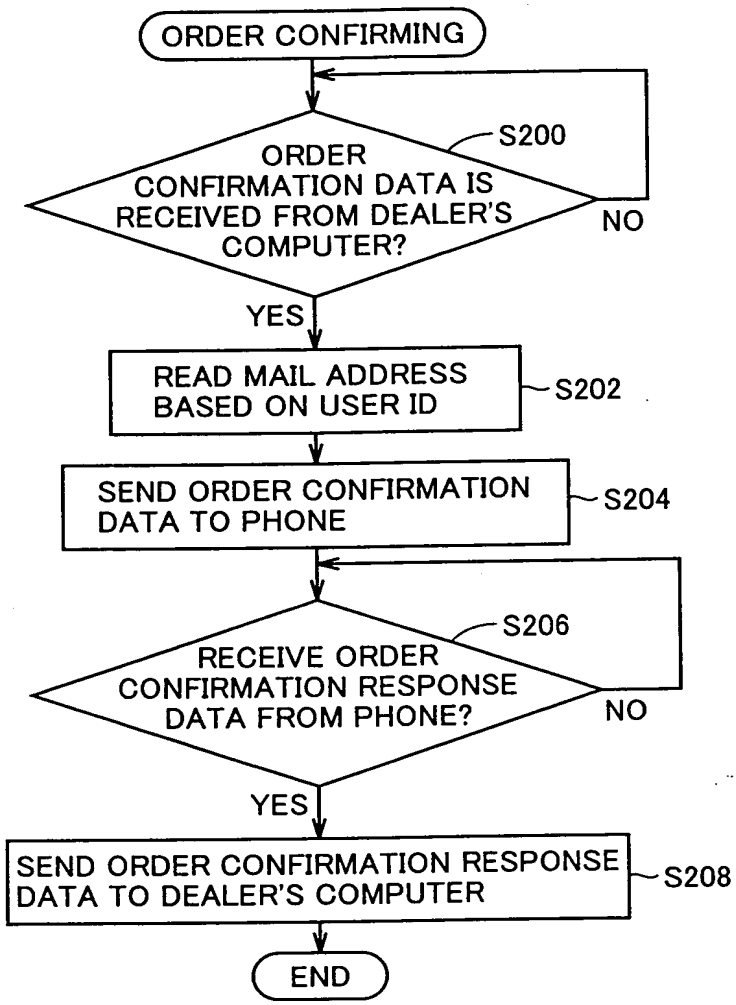

ORDER CONFIRMING
S200
ORDER CONFIRMATION DATA IS RECEIVED FROM DEALER'S COMPUTER?
NO
YES
READ MAIL ADDRESS BASED ON USER ID
S202
SEND ORDER CONFIRMATION DATA TO PHONE
S204
S206
RECEIVE ORDER CONFIRMATION RESPONSE DATA FROM PHONE?
NO
YES
SEND ORDER CONFIRMATION RESPONSE DATA TO DEALER'S COMPUTER
S208
END

FIG.18

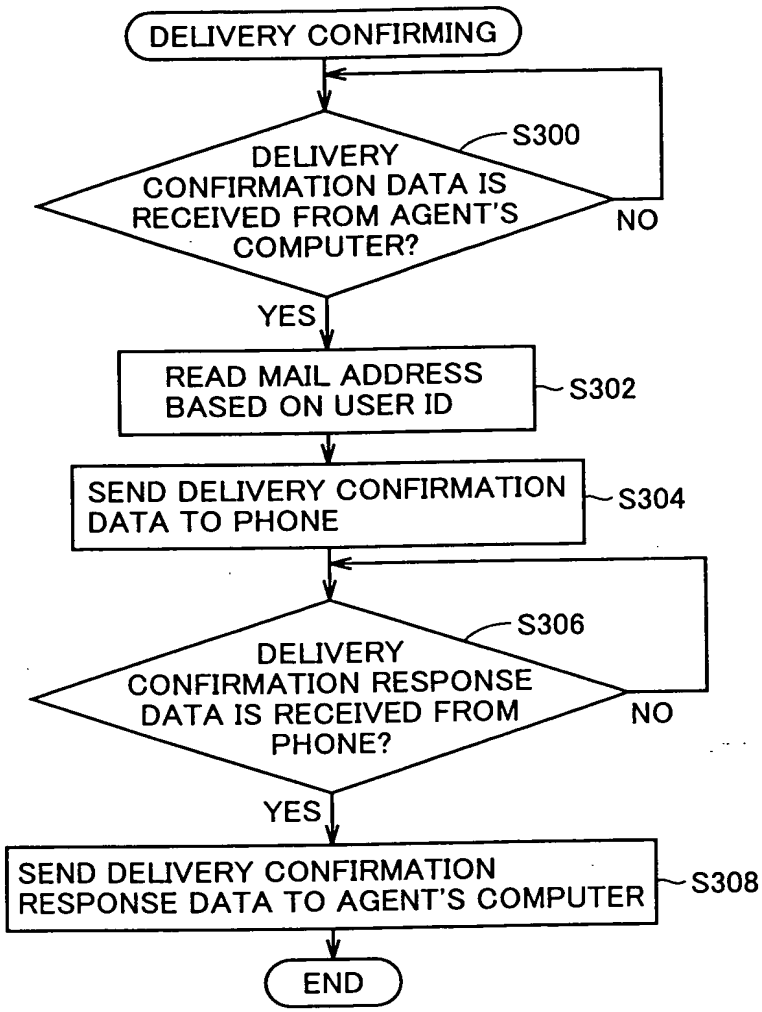

DELIVERY CONFIRMING
S300
DELIVERY CONFIRMATION DATA IS RECEIVED FROM AGENT'S COMPUTER?
NO
YES
READ MAIL ADDRESS BASED ON USER ID
S302
SEND DELIVERY CONFIRMATION DATA TO PHONE
S304
S306
DELIVERY CONFIRMATION RESPONSE DATA IS RECEIVED FROM PHONE?
NO
YES
SEND DELIVERY CONFIRMATION RESPONSE DATA TO AGENT'S COMPUTER
S308
END

FIG.19

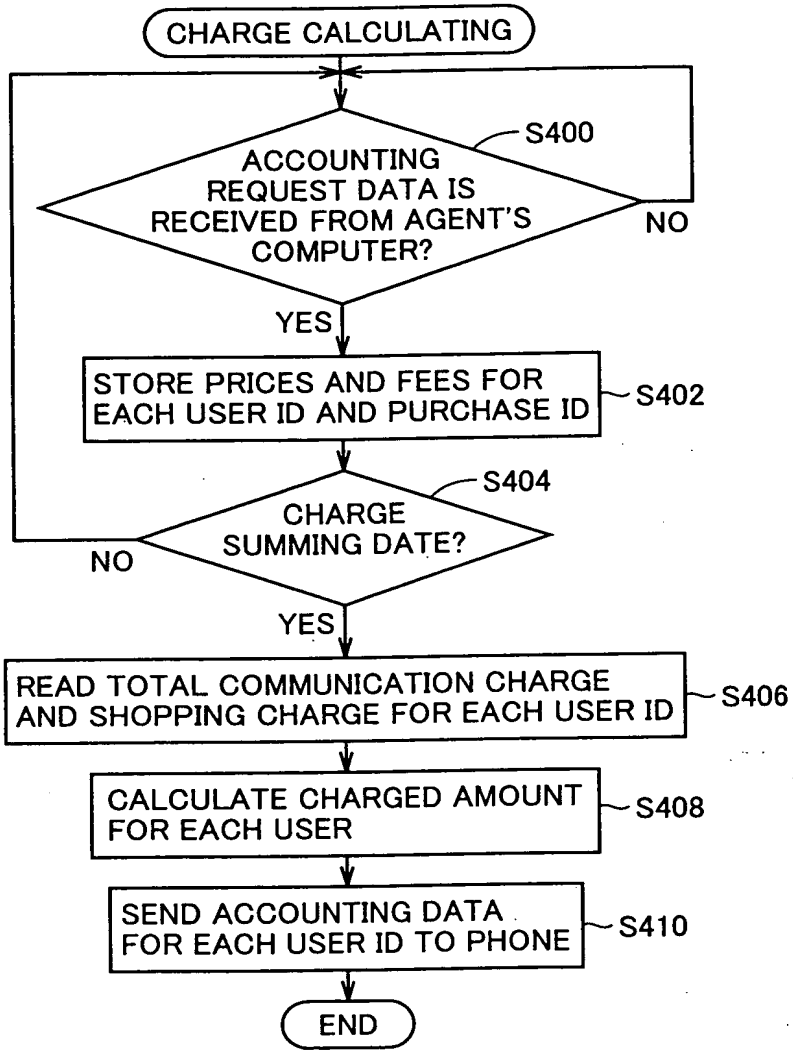

CHARGE CALCULATING
S400
ACCOUNTING REQUEST DATA IS RECEIVED FROM AGENT'S COMPUTER?
NO
YES
STORE PRICES AND FEES FOR EACH USER ID AND PURCHASE ID
S402
S404
CHARGE SUMMING DATE?
NO
YES
READ TOTAL COMMUNICATION CHARGE AND SHOPPING CHARGE FOR EACH USER ID
S406
CALCULATE CHARGED AMOUNT FOR EACH USER
S408
SEND ACCOUNTING DATA FOR EACH USER ID TO PHONE
S410
END

FIG.20

TRANSFER DATA SERVER → DEALER'S COMPUTER

HEADER	TRANSFER FLAG	USER ID	ARTICLE No.	QTY.

FIG.21

DELIVERY REQUEST DATA DEALER'S COMPUTER → AGENT'S COMPUTER

HEADER	DELIVERY REQUEST FLAG	USER ID	PURCHASE ID	ARTICLE No.	QTY.

FIG.22

USER INFORMATION INQUIRY DATA AGENT'S COMPUTER → SERVER

HEADER	INQUIRY FLAG	USER ID

FIG.23

USER INFORMATION RESPONSE DATA SERVER → AGENT'S COMPUTER

HEADER	RESPONSE FLAG	USER ID	ADDRESS	NAME

FIG.24

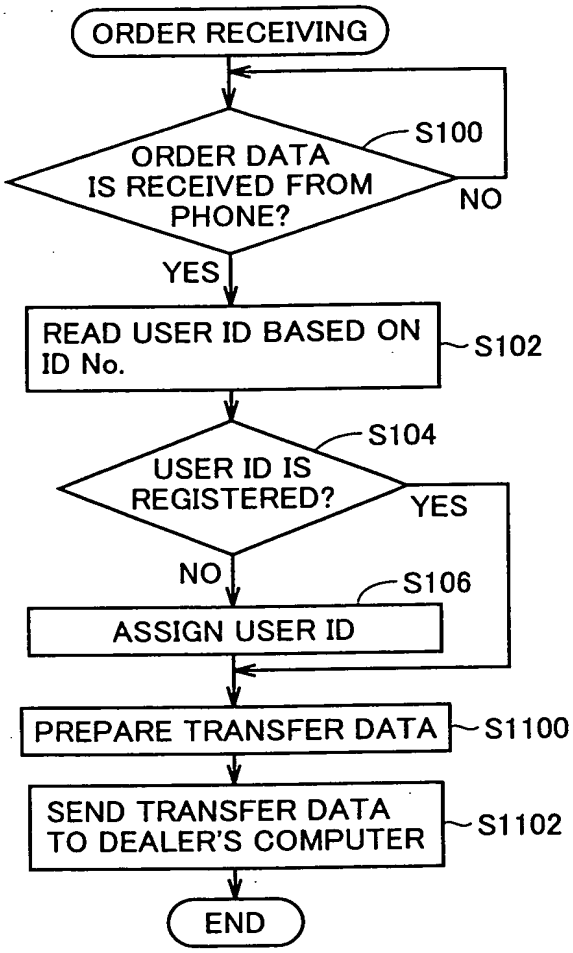
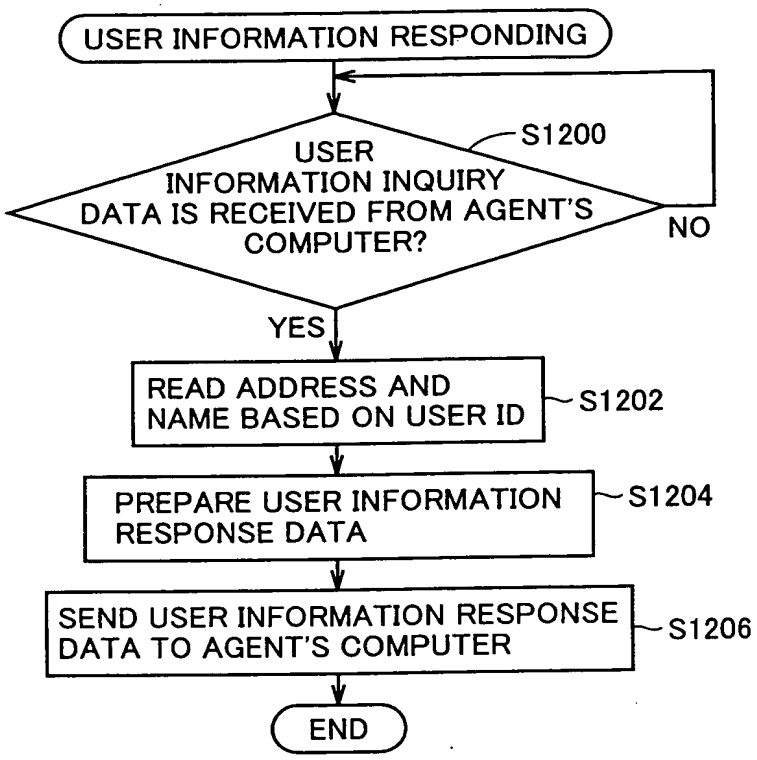

ORDER RECEIVING
S100
ORDER DATA IS RECEIVED FROM PHONE?
NO
YES
READ USER ID BASED ON ID No.
S102
S104
USER ID IS REGISTERED?
YES
NO
S106
ASSIGN USER ID
PREPARE TRANSFER DATA
S1100
SEND TRANSFER DATA TO DEALER'S COMPUTER
S1102
END

FIG.25


USER INFORMATION RESPONDING
S1200
USER INFORMATION INQUIRY DATA IS RECEIVED FROM AGENT'S COMPUTER?
NO
YES
READ ADDRESS AND NAME BASED ON USER ID
S1202
PREPARE USER INFORMATION RESPONSE DATA
S1204
SEND USER INFORMATION RESPONSE DATA TO AGENT'S COMPUTER
S1206
END